

Specification Number: MF-506
Date : March 19, 2014
Revision Status : 2

Zirconium Silicate Flour MF-506

Product Name	Zirconium Silicate Flour
Molecular Formula	ZrSiO ₄
Molecular Weight	183.26
CAS Number	14940-68-2
Available Form	Powder
Major Applications	Paste for Casting

STANDARD SPECIFICATION

PARAMETER	SPECIFICATION	TEST METHOD NUMBER
Purity Content (as ZrO ₂ + HfO ₂) (%)	65.0 (Min)	XRF-1301
Fe ₂ O ₃ (%) :	XRF 0.2 (Max)	XRF-1301
	Volumetri 0.1 (Max)	MSZ-1303
TiO ₂ (%) :	XRF 0.3 (Max)	XRF-1301
	Volumetri 0.15 (Max)	MSZ-1304
Al ₂ O ₃ (%)	1.0 (Max)	MSZ-1207
SiO ₂ (%)	31.2 (Max)	MSZ-1208
Thorium* (ppm)	200	Radiometry
Uranium* (ppm)	350	Radiometry

PHYSICAL PROPERTIES

PARAMETER	VALUE
Heat expansion index (cm/cm/°C)	4.2 x 10 ⁻⁶
Heat transfer properties (BTU/sq.ft/hr.°F/in)	14.5
Refractive index	2
Heat Stability (°C)	1700
Particle Distribution D50 (Malvern) (µm)	36 ± 2 (min)
Particle Distribution D90 (Malvern) (µm)	76 ± 2 (min)
Particle Distribution through 45 µm (%)	2 (max)
Uranium* (ppm)	300
Surface Area (m ² /gm)	1.2

The technical data, specifications, items stated herewith are for customer's reference and are based on our most reliable data obtained by our company. They are made without any warranty implicitly or explicitly. Customer are advised to make own careful examination.